Claims:

A method for treating a <u>liquid effluent heavily</u> loaded especially with hitrogen and with phosphorus, characterised in that it comprises the following stages:

- a) addition of a basic reagent to this liquid effluent to obtain a pH in the range from 8.5 to 13; and
- b) pulverisation of the basified liquid effluent derived from stage a)/in a stream of air.
- 2. The method according to Claim 1, characterised in that the basic reagent added to stage a) is unslaked or slaked lime in the form of powder, paste or/liquid.
- 3. The method according to Claim 2, characterised in that the concentration of lime [Ca(OH)₂] is a maximum of 1,000 g/litre of reagent.

The method according to Claim 3, characterised in that the stage b) is repeated a certain number of times for the same basified effluent.

- 5. The method according to Claim 4, characterised in that the passage number is in the range from 1 to 50.
- The method according to Claim 1, characterised in that at the start of stage b) an anti-foam catalyst is added, the quantity of which varies from 0 to 1 l/m³ of liquid effluent which is to be treated.

7. The method according to Glaims 1 to 5/characterised in that it likewise comprises a stage c) for sifting the liquid effluent derived from stage b).

- 8. A device for implementing the method according to Claim 1 to 7 characterised in that it comprises
- a mixing reactor for bringing the liquid effluent into contact with the basic reagent, provided with an intake for this effluent and another intake for the basic reagent;
- an ammonia-extracting reactor (1), connected to the mixing reactor, and
- a tank for storing the treated liquid effluent derived from the ammonia-extracting reactor(1).
- 9. The device according to Claim 8, characterised in that the mixing reactor comprises a device for measuring the pH of the medium connected to a means situated on the intake for the basic reagent for regulating automatically the added quantity thereof.
- 10. The device according to Claim 9, characterised in that the ammonia-extracting reactor (1) or degassing reactor comprises a lower part (2) collecting in particular the basified liquid effluent and an upper part (5) in which there is situated a pulvisation rack (4) provided with nozeles (6), connected at the lower part (2) to said reactor (1) and

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comprising a feed pump (7), openings (8) being arranged between the two parts to allow exterior air to enter, an exhaust air fan being connected to said upper part (5).

- 11. The device according to Claim 10, characterised in that the pulversiation rack (4) comprises nozzles (6) of the cyclone type.
- 12. The device according to Claim 10, characterised in that the upper part (5) of the degassing reactor (1) is connected to a devesion (9).
- 13. The device according to Claim 12, characterised in that it comprises a washing tower connected to the devesiculer or any other means allowing the ammonia to be collected or eliminated.

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